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communicated to it from the Standard Bar, as mark'd on the Brass Circle by the Index: Let the *Instrument* stand, till the whole is thoroughly cold; then removing the Bar E, lay a Bar of any other Metal in its Place, and heat the Standard Bar to the same Degree of Heat as before, which is seen by the moveable Plates marking the same Degree of Expansion. Then the Index will shew the Degree of Expansion of the second Metal, as it did of the first; and, by this Means, the Degrees of Expansion of different Metals by the same Degree of Heat, may be exactly estimated.

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## II. *A further Account of the Bones of Animals being made Red by Aliment only.* By John Belchier, F. R. S.

**I**N the former Account, which I gave concerning the *Red Bones* of the *Hogs*, (see N<sup>o</sup> 442. p. 286.) I mention'd, That the Colour was occasion'd by Bran, (being mix'd with their common Food) after it had been made Use of to clean printed Callicoes; the Colours of which were made, some from Preparations of *Iron*, which were the Blacks and Purples; others from Preparations of *Alum*, and *Sacc. Saturni*, which produces the Red Colours; and that *Madder* Root was made Use of to fix these Colours on the Cloth.——To which of these Preparations the Colour was owing, I could not determine. Some were of Opinion, that it was intirely occasion'd by the Preparations of *Iron*; others, that it was the whole blended together: And, in order

der to clear up this Point, I determin'd to make some Experiments. The first I made was upon a Cock, by mixing some of the *Madder* Root with *Fig Dust*, on which they feed.—The Cock dying within sixteen Days after his first feeding on the *Madder*, I dissected him, and examin'd the Bones, not in the least Expectation of finding them ting'd in so small a Time; but, to my great Surprise, found them universally of a Red Colour: So that, from this Experiment, it appears, that the *Madder* alone causes this Alteration: But why the Bones only are affected, I shall consider of in the Course of more Experiments.